

KILLTEST

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Preguntas del examen

H13-323_V1.0-ENU

HCIP-AI Solution

Architect V1.0



1. Which of the following is correct?

- A. The two objects generated by shallow copy and deep copy use == to judge that the result is True
- B. The two deep-copied objects use is to check if the result is True
- C. The shallow copy of the two objects uses is to judge the result is True
- D. The result of using == to judge the two deep-copied objects is False

Answer: A

2. What is the HiAI resource package that HiAI partially releases to third-party developers called?

- A. HiAIDDR
- B. HIAI DDK
- C. HIAI SDK
- D. HIAIJDK

Answer: C

3. Which of the following schools of thought does neural network research belong to?

- A. Symbolism
- B. Connectionism
- C. Behaviorism
- D. None of the above

Answer: B

4. Which of the following is not a feature of MindSpore's core architecture?

- A. Automatic Differentiation
- B. Automatic tuning
- C. Automatic encoding
- D. Automatic parallelization

Answer: C

5. Singular value decomposition can be performed on non-square matrices.

- A. True
- B. False

Answer: A

6. ModelArts architecture includes AI data framework, algorithm development, training, and deployment.

- A. True

B. False

Answer: A

7. Which of the following statements about the SVM algorithm is wrong?

A. The SVM algorithm can use a variety of kernel functions

B. BSVM can be used to solve classification problems

C. The support vector is the vector point closest to the hyperplane

D. The DSVM algorithm cannot be used to process nonlinear data sets

Answer: D

8. Current AI is still at the artificial intelligence level.

A. True

B. False

Answer: A

9. What methods can be used to merge tensors in TensorFlow 2.0?

A. Concat

B. split

C. join

D. unstack

Answer: A

10. When was TensorFlow 2.0 released? In which year?

A. 2015

B. 2017

C. 2019

D. 2018

Answer: C

11. Where should labeled data be placed in a GAN?

A. As input value of the generative model

B. As input value of the discriminant model

C. As the output value of the generated model

D. As the output value of the discriminant model

Answer: B

12. Which of the following statements about convolutional neural networks is wrong?

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- A. Convolution kernels cannot be used to extract global features of images
 - B. When processing an image, the image is convolved in a scanning window manner.
 - C. Common pooling layers include maximum pooling and average pooling
 - D. Convolutional neural networks can contain convolutional layers, pooling layers and fully connected layers

Answer: A

13. Which module of HUAWEI HiAI does Huawei chip support?

- A. HiAI Engine
- B. HiAI Foundation
- C. HiAI Framework
- D. HiAI Service

Answer: B

14. Which of the following is an advantage of one-hot word embedding?

- A. When the vocabulary is large, the word vector dimension will be too large
- B. Simple and easy to understand
- C. The words are isolated and cannot express similar meanings
- D. Sparse expression of words

Answer: B

15. In a neural network based on connectionism, each fixed point can express a specific meaning.

- A. True
- B. False

Answer: B

16. TensorFlow is one of the most popular deep learning frameworks.

- A. True
- B. False

Answer: A

17. The fully connected layer is generally located in the middle of the network to reduce the number of parameters.

- A. True
- B. False

Answer: B

18. Which of the following statements about neural networks is wrong?

- A. As the number of hidden layers of the neural network increases, the classification ability of the model gradually weakens
- B. Feedforward neural networks can be represented by directed acyclic graphs
- C. The limitation of a single-layer perceptron is that it cannot solve or
- D. There is no connection between neurons in the same layer of the feedforward neural network

Answer: A

19. Federated learning uses different data sources to train models while ensuring data privacy and security, and further breaks through data bottlenecks.

- A. True
- B. False

Answer: A

20. All convolution kernels in the same convolution layer in a convolutional neural network share weights.

- A. True
- B. False

Answer: A

21. Which of the following activation functions can solve the gradient vanishing problem well?

- A. Tanh
- B. Sigmoid
- C. Softsign
- D. Relu

Answer: D

22. In which year was the term “artificial intelligence” first published?

- A. 1956
- B. 1950
- C. 1959
- D. 1946

Answer: A

23. For a matrix with singular values, the matrix must be a square matrix and the

singular values are arranged in descending order.

A. True

B. False

Answer: B

24. While creating a network layer, what is the main purpose of adding a dropout layer?

A. Extracting image features

B. Acts as a classifier

C. Increase nonlinearity

D. Prevent overfitting

Answer: D

25. Training a large model is a systematic project, covering multiple aspects including large model development, training, and fine-tuning. Improving the efficiency and scalability of large model distributed scale training is the main function of which of the following large model development kits?

A. Huggingface PEFT

B. DeepSpeed

C. MindFormers

D. MindPet

Answer: B

26. In machine learning, which of the following options is not part of the process from acquiring data to formally putting it into the model?

A. Data Standardization

B. Data cleaning

C. Data Dimensionality Reduction

D. Data Visualization

Answer: D

27. Concurrency refers to the execution of multiple tasks at the same time.

Concurrent operations can be completed using multiple processes in Python.

A. True

B. False

Answer: A

28. HUAWEI HiAI Engine can easily integrate various AI capabilities with apps.

A. True

B. False

Answer: A

29. Regularization can also be added to logistic regression to avoid overfitting.

A. True

B. False

Answer: A

30. What data types does TensorFlow use?

A. Scalar

B. Matrix

C. Vector

D. Tensor

Answer: D

31. Combining ModelArts service with () service can easily deploy models to the "end".

A. OBS

B. ORC

C. ECS

D. HiLens

Answer: D

32. Which of the following engines cannot be provided by HUAWEI HiAI Engine?

A. ASR Engine

B. NLU Engine

C. DSP Engine

D. CV Engine

Answer: C

33. Which of the following identifiers is incorrectly named?

A. If

B. print

C. a0*

D. _0a

Answer: C

34. Which tools can be integrated with the HUAWEI HiAI platform?

- A. Jupyter Notebook
- B. MyEclipse
- C. Android Studio
- D. Spider

Answer: C

35. Jobs that are repetitive and require weak social skills are easily replaced by AI.

- A. True
- B. False

Answer: A

36. When using the keras interface of TensorFlow20 to build a neural network, it is necessary to compile the network. Which of the following methods should be selected?

- A. compile
- B. write
- C. join
- D. fit

Answer: A

37. ModelSummary0 in Keras is used to print the network overview.

- A. True
- B. False

Answer: A

38. Which of the following options is correct about the relationship between Poisson distribution and binomial distribution?

- A. The Poisson distribution has nothing to do with the binomial distribution.
- B. Poisson distribution can replace binomial distribution
- C. Poisson distribution is an approximation of binomial distribution when n is large and p is small
- D. The mathematical models of Poisson distribution and binomial distribution are both Lagrangian probability models

Answer: C

39. Recurrent neural networks can capture dynamic information in serialized data.

A. True

B. False

Answer: A

40. The three main advantages of the Keras interface are user-friendliness, modularity and composability, and ease of extensibility.

A. True

B. False

Answer: A

41. Which of the following statements correctly describes the synergistic effect when a large model is used in conjunction with a knowledge base?

A. Using large models in conjunction with knowledge bases limits the efficiency of information retrieval because large models process slower than traditional database queries.

B. By combining the large model with the knowledge base, it can quickly retrieve relevant knowledge and generate accurate answers, improving the efficiency and accuracy of information retrieval.

C. The combination of large models and knowledge bases is mainly used to enhance the gaming experience and provide richer game content and interaction.

D. Combining big models with knowledge bases can only be applied in the field of online education to provide customized learning content and tests

Answer: B

42. The loss function of logistic regression is the cross loss function.

A. True

B. False

Answer: A

43. A coin is tossed 100 times, 60 times it is heads and 40 times it is tails. What is the maximum possible distribution of the mass of the coin?

A. Back/front = 2:1

B. Back/front = 3:2

C. Back/front = 5:3

D. Back/front = 5:2

Answer: B

44. What does the epochs parameter in the code

model.fit(mnist.train.inimage.mnist.train.labels.epochs=5) represent?

- A. The entire training set will be trained 5 times
- B. The entire test set will be tested 5 times
- C. The entire training set will be divided into 6 parts
- D. The entire training set will be divided into 5 parts

Answer: A

45. The covariance matrix is a symmetric matrix, and the elements on the diagonal are the covariances of pairwise random variables.

- A. True
- B. False

Answer: A

46. Which of the following statements about the combination of LangChain and RAG is wrong?

- A. Data loader is used to load data from a data source and convert it into a document object.
- B. The text segmenter divides the document object into smaller document objects to facilitate subsequent retrieval and generation.
- C. Text embedder is used to convert texts into embeddings to measure the similarity between texts.
- D. The memory does not require indexing technology and can directly store and query embeddings.

Answer: D

47. After the model is trained, it is generally necessary to compress and quantize the model before deploying it as a service and performing inference. Under the premise that the data meets the accuracy required by the model, the model's reference amount can be reduced. Which of the following tools is mainly used to compress large models and accelerate inference?

- A. Mindspore
- B. MindPet
- C. MindFormers
- D. ModelSlim

Answer: D

48. The Sys block is responsible for interacting with the operating system and provides an interface for accessing the underlying operating system.

- A. True

B. False

Answer: B

49. Which of the following attributes does TensorFlow 2.0 not support in creating tensors?

A. create

B. f11

C. zeros

D. constant

Answer: A

50. Which of the following output results is wrong?

A. `print(*map(lambda x: x*x, [1, 2, 3]))` output: 149

B. `print(*zip([1, 2, 3], ["a"], ["A""B""C"]))` Output: (1, a"

C. (2, b', B(3, C

D. `print(*filter(lambda x: x%2==1), [1, 2, 3])` output result 13

E. `sorted([("b", 2), ("a", 1), ("c", 3), ("d", 4)], key=lambda x: x[1])` Output: [(a', 1), ("", 2), (c, 3), (d', 4)]

Answer: B

51. Which of the following is the value range of INT8?

A. [-128, 128]

B. [0, 255]

C. [-127, 128]

D. [-128, 127]

Answer: D

52. A first -rank tensor is a scalar.

A. True

B. False

Answer: B

53. PyTorch's current versions support Python2 and Python3.

A. True

B. False

Answer: B

54. Which of the following statements about gradient descent is correct?

- A. Global gradient descent is faster than stochastic gradient descent
- B. When using gradient descent, the learning rate should be kept consistent
- C. Adam is not a gradient descent algorithm
- D. Stochastic gradient descent is sensitive to noise points

Answer: D

55. Which company developed TensorFlow?

- A. Oracle
- B. Facebook
- C. Google
- D. NVIDIA

Answer: C

56. Which of the following options does not belong to Huawei's full-stack solution?

- A. Application Enablement
- B. Edge computing
- C. Open Source Framework
- D. Chip Enable

Answer: B

57. In the application of large language models, which technology can enhance the model's reasoning ability by simulating the human problem-solving thinking process?

- A. Federated Learning
- B. Reinforcement Learning
- C. Thinking Chain
- D. Transfer Learning

Answer: C

58. The Naive Bayes algorithm does not require independent and identical distribution between sample features

- A. True
- B. False

Answer: B

59. Which of the following statements about the standard RNN model is correct?

- A. Back propagation does not consider the time direction
- B. There is no one-to-one model structure

C. There will be a problem of information decay during long-term transmission of memory

D. There is no many-to-many model structure

Answer: C

60. Which statement about matrix is correct?

A. Non-square matrices also have inverse matrices

B. The transpose of an orthogonal matrix A is equal to the inverse of A

C. The transpose of a symmetric matrix A is A itself

D. Any matrix multiplied by the identity matrix is equal to itself

Answer: A

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